

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Substitute for form 1449A/PTO (Modified)		Application Number	10/782,260
		Filing Date	February 18, 2004
		First Named Inventor	BUELOW, Roland
		Art Unit	To be assigned
		Examiner Name	To be assigned
Sheet	1 of 6	Attorney Docket Number	33861/US/TAL/NHT ([A-63708-6] 465840-524)

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
[Signature]	A1 *	4,829,984	05-16-1989	Gordon	
	A2 *	5,563,132	10-08-1996	Bodaness	
	A3 *	5,756,492	05-26-1998	Buelow et al.	
	A4 *	6,013,641	01-11-2000	Lussow et al.	
	A5 *	6,060,467	05-09-2000	Buelow	

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
[Signature]	B1 *	WO 96/09038 A2	03-28-1996	William Harvey Research Ltd.		
	B2	WO 98/09618 A2/A3	03-12-1998	SangStat Medical Corporation		
	B3	WO 99/23215 A2/A3	05-14-1999	University of Florida		
	B4	WO 00/12118 A2/A3	03-09-2000	President & Fellows of Harvard College		

NON PATENT LITERATURE DOCUMENTS

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[Signature]	C1	ABRAHAM, N.G., et al., "Retinal pigment epithelial cell-based gene therapy against hemoglobin toxicity," <i>Int. J. Mol. Med.</i> 1:657-663 (1998).	
	C2	ABRAHAM, N.G., et al., "The physiological significance of heme oxygenase," <i>Int. J. Biochem.</i> 20(6):543-558 (1988).	
	C3	AGARWAL, A., et al., "Gas-generating systems in acute renal allograft rejection in the rat," <i>Transplantation</i> 61(1):93-98 (Jan. 1996).	
	C4 *	ALBERTS, B., et al., "Chapter 3: Macromolecules: Structure, Shape, and Information," <i>Molecular Biology of the Cell</i> , B. Alberts et al. (eds.), 3 rd ed., pp. 122-123, Garland Publishing, Inc.: New York, NY (1994).	
	C5	AMERSI, F., et al., "Carbon monoxide provides protection against ischemia/reperfusion injury in rat livers," No. 156, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).	
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	C7 *	ARHEHALI, A., et al., "Direct gene transfer into donor hearts at the time of harvests," <i>J. Thorac. Cardiovasc. Surg.</i> 109(4):716-719 (1995).	
	C8 *	BENTZ, J., et al., "DINAMO: interactive protein alignment and model building," <i>Bioinformatics</i> 15(4):309-316 (1999).	
	C9 *	BLYDT-HANSEN, T.D., et al., "Heme oxygenase-1 gene transfer protects against ischemia/reperfusion injury in rat renal isograft model," No. 157, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).	

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[Signature]	C10	BOASQUEVISQUE, C., et al., "Ex vivo liposome-mediated gene transfer to lung isografts," <i>J. Thorac. Cardiovasc. Surg.</i> 115(1):38-44 (Jan. 1998).		
	C11	BOUCHER, R., "Status of gene therapy for cystic fibrosis lung disease," <i>J. Clin. Invest.</i> 103(4):441-445 (Feb. 1999).		
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	C13	BRAUNER, R., et al., "Intracoronary adenovirus-mediated transfer of immunosuppressive cytokine genes prolongs allograft survival," <i>J. Thorac. Cardiovasc. Surg.</i> 114(6):923-933 (Dec. 1997).		
	C14	BROUARD, S., et al., "Carbon monoxide generated by heme oxygenase-1 suppresses endothelial cell apoptosis through a P38 mark dependent mechanism," No. 1027, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
	C15	BÜELER, H., "Adeno-associated viral vectors for gene transfer and gene therapy," <i>Biol. Chem.</i> 380(6):613-622 (1999).		
	C16	CHAVEAU, C., et al., "Heme oxygenase-1 (HO-1) gene transfer delayed allograft acute rejection in a rat model," No. 36, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
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	C18	CRYSTAL, R.G., "Transfer of genes to humans: early lessons and obstacles to success," <i>Science</i> 270(5235):404-410 (Oct. 1995).		
	C19	CUTURI, M., et al., "RDP1258, a New Rationally Designed Immunosuppressive Peptide, Prolongs Allograft Survival in Rats: Analysis of Its Mechanism of Action," <i>Mol. Med.</i> 5(12):820-832 (Dec. 1999).		
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	C22	DeBRUYNE, L., et al., "Lipid-mediated gene transfer of viral IL-10 prolongs vascularized cardiac allograft survival by inhibiting donor-specific cellular and humoral immune response," <i>Gene Ther.</i> 5(8):1079-1087 (Aug. 1998).		
	C23	DRUMMOND, G., et al., "Prevention of neonatal hyperbilirubinemia by tin protoporphyrin IX, a potent competitive inhibitor of heme oxidation," <i>Proc. Natl. Acad. Sci. USA</i> 78(10):6466-6470 (Oct. 1981).		
	C24	ECK, et al., "Chapter 5," <i>Goodman and Gilman's The Pharmacological Basis of Therapeutics</i> , 9 th ed., pp. 77-101, McGraw Hill: New York, NY (1995).		
	C25	EVANS, C-O, et al., "Cloning and sequencing and expression of cDNA for chick liver heme oxygenase: comparison of avian and mammalian cDNAs and deduced protein," <i>Biochem. J.</i> 273:659-666 (1991).		
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[Signature]	C27	HANCOCK, W., et al., "Antibody-induced transplant arteriosclerosis is prevented by graft expression of anti-oxidant and anti-apoptotic genes," <i>Nat. Med.</i> 4(12):1392-1396 (Dec. 1998).		
	C28	HEGAZY, K.A., et al., "Functional human heme oxygenase has a neuroprotective effect on adult rat ganglion cells after pressure induced ischemia," <i>NeuroReport</i> 11(6):1185-1189 (Apr. 2000).		

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[Signature]	C29 *	HORI, R., et al., "Gene transfection of H2SA mutant heme oxygenase-1 protects cells against hyperoxide-induced cytotoxicity," <i>J. Biol. Chem.</i> 277(12):10712-10718 (Mar. 2002).		
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	C31 *	IYER, S., et al., "Characterization and biological significance of immunosuppressive peptide D2702.75-84 (E → V) binding protein," <i>J. Biol. Chem.</i> 273(5):2692-2697 (1998).		
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	C35 *	KUEMMERLE, N.B., et al., "Gene expression after intrarenal injection of plasmid DNA in the rat," <i>Pediatr. Nephrol.</i> 14(2):152-157 (2000).		
	C36 *	LEDLEY, F.D., "Pharmaceutical approach to somatic gene therapy," <i>Pharm. Rev.</i> 13(11):1595-1614 (Nov. 1996).		
	C37 *	LEE, P.J., et al., "Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia," <i>Proc. Natl. Acad. Sci. USA</i> 93(19):10393-10398 (Sep. 1996).		
	C38 *	LEE, R., et al., "Isolated lung liposome-mediated gene transfer produces organ-specific transgenic expression," <i>Ann. Thorac. Surg.</i> 66:903-907 (1998).		
	C39 *	LEVINE, F., et al., "Towards gene therapy of diabetes mellitus," <i>Mol. Med. Today</i> 5:165-171 (Apr. 1999).		
	C40 *	LI, X.K., "Prolonged survival of rat liver allografts transfected with Fas ligand-expressing plasmid," <i>Transplantation</i> 66:1416-1423 (1998).		
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	C42	MAINES, M., "Zinc protoporphyrin is a selective inhibitor of heme oxygenase activity in the neonatal rat," <i>Biochim. Biophys. Acta</i> 673:339-350 (1981).		
	C43 *	MARCONI, P., et al., "Replication-defective herpes simplex virus vectors for gene therapy <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93(21):11319-11320 (Oct. 1996).		
	C44	MARTASEK, P., et al., "Properties of human kidney heme oxygenase: inhibition by synthetic heme analogues and metalloporphyrins," <i>Biochem. Biophys. Res. Commun.</i> 157(2):480-487 (Dec. 1988).		
	C45 *	McCLAIN, S., et al., "Functional consequences of adenovirus-mediated murine pancreatic gene transfer," <i>Human Gene Ther.</i> 8(6):739-746 (Apr. 1997).		
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	C47 *	MILLER, N., et al., "Targeted vectors for gene therapy," <i>FASEB J.</i> 9(2):190-199 (Feb. 1995).		

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[Signature]	C48 *	MOFFATT, S.D., et al., "Comparison between tacrolimus and cyclosporine as immunosuppressive agents compatible with tolerance induction by CD4/CD8 blockade," <i>Transplantation</i> 69(8):1724-1726 (Apr. 2000).		
	C49 *	MURUVE, D., et al., "Ex vivo adenovirus-mediated gene therapy leads to long-term expression in pancreatic islet transplants," <i>Transplantation</i> 64(3):542-546 (1997).		
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	C51	NEIL, T.K., et al., "Modulation of corneal heme oxygenase expression by oxidative stress agents," <i>J. Ocular Pharmacol. Therap.</i> 11(3):455-468 (1995).		
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	C54 *	ORKIN, S., et al., <i>Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy</i> , National Institutes of Health: Bethesda, MD (Dec. 1995).		
	C55 *	OTTERBEIN, L., et al., "Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway," <i>Nat. Med.</i> 6(4):422-428 (Apr. 2000).		
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	C63	ROZA, A., et al., "AMD6221, a novel nitric oxide scavenger, decreases heme protein nitrosylation and prolongs cardiac allograft survival," No. 365, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
	C64 *	RUDINGER, J., "Characteristics of the amino acids as components of a peptide hormone sequence," <i>Peptide Hormones</i> , pp. 1-7, J.A. Parsons (ed.), University Park Press: Baltimore, MD (1976).		
[Signature]	C65 *	SCHMITT, M.P., "Utilization of host iron sources by <i>Corynebacterium diphtheriae</i> : identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin," <i>J. Bact.</i> 179(5):838-845 (1997).		

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[Signature]	C66 *	SCHULER, W., et al., "SDZ RAD, a new rapamycin derivative: pharmacological properties <i>in vitro</i> and <i>in vivo</i> ," <i>Transplantation</i> 64(1):32-35 (Jul. 1997).		
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	C68 *	SHAKED, A., et al., "Retroviral-mediated gene transfer into rat experimental liver transplant," <i>Transplantation</i> 57:32-34 (1994).		
	C69 *	SINAL, C.J., et al., "Liver transplantation induces cytochrome P450 1A1 dependent monooxygenase activity in rat lung and kidney," <i>Can. J. Physiol. Pharmacol.</i> 73:146-152 (1995).		
	C70 *	SOARES, M.P., et al., "Expression of heme oxygenase-1 can determine cardiac xenograft survival," <i>Nat. Med.</i> 4(9):1073-1077 (Sep. 1998).		
	C71 *	SONG, Y.K., et al., "Enhanced gene expression in mouse lung by prolonging the retention time of intravenously injected plasmid DNA," <i>Gene Ther.</i> 5(11):1531-1537 (1998).		
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Examiner Signature	[Signature]	Date Considered	2/22/06
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
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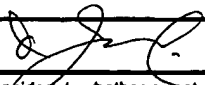
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			Application Number	10/782,260	
			Filing Date	February 18, 2004	
			First Named Inventor	BUELOW, Roland	
			Art Unit	To be assigned	
			Examiner Name	To be assigned	
Sheet	6	of	6	Attorney Docket Number	33861/US/TAL/NHT ([A-63708-6] 465840-524)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	† ⁴
	C86	ZHU, N., et al., "Systemic gene expression after intravenous DNA delivery into adult mice," <i>Science</i> 261(5118):208-211 (Jul. 1993).	

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